

IMPROVED METHOD OF RESOURCE ARBITRATION

ABSTRACT

An improved method and apparatus for resource arbitration. Four priority classes, managed high (MH),
5 managed low (ML), opportunistic high (OH) and opportunistic
low (OL), are defined. A priority class is assigned to each
resource access request. An access request concentrator (ARC)
is created for each resource, through which the resource is
accessed. An access request is chosen at each ARC using the
10 priority order MH, ML, OH, and OL, in decreasing order of
priority. If OH priority class resource access requests are
locked out, the priority order is temporarily changed to OH,
OL, MH, and ML, in decreasing order of priority. If OL
priority class resource access requests are locked out, the
15 priority order is temporarily changed to MH, OL, OH, and ML,
in decreasing order of priority.